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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge et al.
U.S. Serial No.: 09/698,341
Filed: 10/27/00
Entitled: Compositions and Methods Utilizing
DNA Polymerases

Group: 1652
Examiner: Hutson, R.

TECH CENTER 1600/2900

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Attorney Docket No.: 25436/1560

Commissioner for Patents and Trademarks
Washington, D.C. 20231

AMENDMENT

Sir:

This is filed in response to the Office Action mailed August 15, 2001 in the above noted patent application. Kindly enter the following amendments and remarks.

In the Claims

Please amend the claims as follows.

Please cancel claims 4, 11 and 48-84 without prejudice.

Please replace claims 6, 10, 12 and 14 with the following amended claims 6, 10, 12 and

14:

Sub B
6. An isolated recombinant Family B DNA polymerase from *Thermococcus* species JDF-3 that is 3' to 5' exonuclease deficient.

Sub B
10. An isolated recombinant Family B DNA polymerase having reduced discrimination against non-conventional nucleotides, wherein said DNA polymerase has a mutation in Region II.

B3
12. The DNA polymerase of claim 6 [or 10] wherein said DNA polymerase further comprises a mutation selected from the group consisting of: a leucine to histidine mutation at a site corresponding to L408 of SEQ ID NO: 2; a leucine to phenylalanine mutation at a site corresponding to L408 of SEQ ID NO: 2; a proline to leucine mutation at a site corresponding to